

Certificate of Analysis

Report Date: 5/23/2005
Job No: 13031-0501604
Client Ref: N/A

Product: #6 F/O (.5%)
Location: Sprague, Rensselaer, NY

Test	Method	Result	Units
Lab Number: 2005050256-01		Sample ID: TK 5 UPPER	
Date Sampled 5/23/2005			
API Gravity @ 60°F	ASTM D-4052	13.0	@ 60 °F
Sulfur, Total by X-Ray Fluoresc.	ASTM D-4294	0.496	WT %
Lab Number: 2005050256-02		Sample ID: TK 5 MIDDLE	
Date Sampled 5/23/2005			
API Gravity @ 60°F	ASTM D-4052	13.0	@ 60 °F
Sulfur, Total by X-Ray Fluoresc.	ASTM D-4294	0.498	WT %
Lab Number: 2005050256-03		Sample ID: TK 5 LOWER	
Date Sampled 5/23/2005			
API Gravity @ 60°F	ASTM D-4052	13.0	@ 60 °F
Sulfur, Total by X-Ray Fluoresc.	ASTM D-4294	0.500	WT %
Lab Number: 2005050256-04		Sample ID: TK 5 SUCTION	
Date Sampled 5/23/2005			
API Gravity @ 60°F	ASTM D-4052	13.0	@ 60 °F
Sulfur, Total by X-Ray Fluoresc.	ASTM D-4294	0.496	WT %
Lab Number: 2005050256-05		Sample ID: TK 5 RUNNING	
Date Sampled 5/23/2005			
API Gravity @ 60°F	ASTM D-4052	12.9	@ 60 °F
Sulfur, Total by X-Ray Fluoresc.	ASTM D-4294	0.494	WT %

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIV BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF

Approved By:

Denise Apruzzi
Laboratory Manager

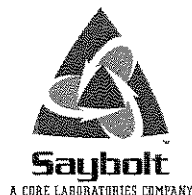
BY SPRAGUE TO CUSTOMER SPRAGUE DISCLAIMS ANY WARRANTY OF

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BUYER AND A BUYER OF PRODUCT, SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES

The test parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 9744 (except for analysis of RFG), IP 367 and appendix E of IP standard methods for analysis, testing with respect to the utilization of test data to determine conformance with specifications.

REPORT ANALYSIS:



SAYBOLT LP
400 SWENSON DRIVE
KENILWORTH, NJ 07033
908-245-3100 Telephone
908-245-5828 Facsimile

Fast To The Point

Saybolt LP

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Product: #6 F/O (.5%)
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Test	Method	Result	Units
Lab Number: 2005050256-06		Sample ID: TK 5 U,M,L COMPOSITE	
Date Sampled 5/23/2005			
API Gravity @ 60°F	ASTM D-4052	13.0	@ 60 °F
Sulfur	ASTM D-4294	0.498	Wt%
Flash Point (Pensky Marten)	ASTM D-93B	188	° F
Viscosity, Kin. @ 122.0°F	ASTM D-445	377.0	cSt
Viscosity, SFS@ 122.0°F	ASTM D-2161	177.9	Sec.
Pour Point	ASTM D-97	3 / 37	°C/°F
Water and Sediment	ASTM D-1796	0.10	Vol. %
Ash	ASTM D-482	0.033	Wt%
Gross Heat of Combustion	ASTM D-240	18509	BTU/lb
Gross Heat of Combustion	ASTM D-240	150108	BTU/gal
Water by Distillation	ASTM D-95	0.10	Vol. %
Sediment by Extraction	ASTM D-473	0.034	Wt%
Carbon Residue-Conradson	ASTM D-189	9.8	Wt%
Asphaltenes	IP-143	3.2	Wt%
Nitrogen	ASTM D-5762	0.354	Wt%
Sodium	AA/SOL DIL	3.6	ppm
Vanadium	AA/SOL DIL	6.0	ppm

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Denise Apruzzi
Laboratory Manager

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"Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 3244 (except for analysis of RFG), IP 367 and appendix E of IP standard methods for analysis, testing with respect to the utilization of test data to determine conformance with specifications"